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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/849,294	05/19/2004	Frederic Plante	IBM-021	5608
51835	7590	01/12/2009	EXAMINER	
IBM LOTUS & RATIONAL SW			WEI, ZHENG	
c/o GUERIN & RODRIGUEZ				
5 MOUNT ROYAL AVENUE			ART UNIT	PAPER NUMBER
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MARLBOROUGH, MA 01752			2192	
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			01/12/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/849,294	PLANTE, FREDERIC	
	Examiner	Art Unit	
	ZHENG WEI	2192	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 06 October 2008.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-4 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-4 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ . |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ . | 6) <input type="checkbox"/> Other: _____ . |

DETAILED ACTION

1. This office action is in response to the amendment filed on 10/06/2008.
2. Claims 1-4 remain pending and have been examined.

Response to Arguments

3. Applicant's arguments filed 10/06/2008 have been fully considered and are persuasive. Therefore, the rejection to claims 1-4 in previous office action is withdrawn and a new ground of rejection is applied.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –
(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
4. Claims 1, 2 and 4 are rejected under 35 U.S.C. 102(b) as being anticipated by Zgarba (US 6,502,239 B2)

Claim 1:

Zgarba discloses a method for synchronizing a first artifact (source code) and a second artifact (software model), the first and second artifacts being interdependent and each artifact being modified independent of a modification to the other artifact after a last synchronization (see for example, Fig.1, and related

text; also see col.1, lines 43-46), the first and second artifacts each having a plurality of elements and being of different formats (C++ and CDIF), the method comprising:

- Performing a forward engineering operation to generate a temporary artifact (generic meta-model) having all the elements of a last synchronized version of the first artifact and having all the elements of a latest version of the second artifact transformed as the first artifacts (*see for example, col.5, lines 3-5, "...parsing the code and transforming all the elements of the code...into a generic meta-model..."; also see col.6, lines 30-33, "If a software model 2 is already present when the data from the source file is imported into the software model, and data from the source file is to be merged into the software model rather than replacing it..."*)
- merging the temporary artifact and a latest version of the first artifact to create a synchronized version of the first artifact (*see for example, col.7, lines 2-5, "...merging the data in the software model 2 with any existing source code 4, adding new code, changing code or removing code when necessary to create new source code 8"; also see col.4, lines 35-45); and*
- performing a reverse engineering operation to generate a synchronized version of the second artifact having all the elements of the latest version of the second artifact and having all the elements of the synchronized version of the first artifact transformed as the second artifact (*see for example, Fig.4, step 10, generating software model from newly generated source code; also*

see col.3, line 67- col.4, line 3, "...permit generation of software models from source code using various different modeling methodologies and also permit the engraftation of source code from the software model")

Claim 2:

Zgarba also discloses the method/system of claim 1 wherein one of the first and second artifacts is a software model artifact (software model) and the other of the first and second artifacts is a code artifact (source code) (see for example Fig.1, Fig.4, "Software Model", "source code" and related text)

Claim 4:

Zgarba also discloses the method of claim 2, wherein the code artifact is a 3GL source file. (see for example, col.3, lines 49-55, C++ programming language)

5. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Zgarba (US 6,502,239 B2) in view of Iyengar (US 6,038,393)

Claim 3:

Zgarba discloses the method of claim 2, but does not explicitly disclose wherein the software model artifact is a Unified Modeling Language (UML) file. However, Iyengar in the same analogous art of transforming application into UML and/or UML models into application (see for example, ABSTRACT, "The system also

transforms legacy business processes, including legacy applications into UML format...The system also allows the reverse engineering and reverse transformation of UML models ...into application components"). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to utilize the UML language to represent the software model in Zgarba. One would have been motivated to do so to standardize the model transformation with other object models as suggested by Iyengar (see for example, col.3, lines22-38, "UML is the result of an effort to create standardization in the various object-oriented methods")

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zheng Wei whose telephone number is (571) 270-1059 and Fax number is (571) 270-2059. The examiner can normally be reached on Monday-Thursday 8:00-15:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tuan Q. Dam can be reached on (571) 272-3695. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Any inquiry of a general nature of relating to the status of this application or proceeding should be directed to the TC 2100 Group receptionist whose telephone number is 571- 272-1000.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Z. W./
Examiner, Art Unit 2192

/Tuan Q. Dam/
Supervisory Patent Examiner, Art Unit 2192